



# City of Phoenix Downtown Traffic Management System (DTMS)

Presented by:

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# Presentation Agenda

- Downtown Traffic Management System Overview
  - Project Goals
  - System Components
  - Future Expansion Plans



# About Phoenix

- Population 1.4 million
- 515 square miles
- 5<sup>th</sup> largest city
- Tremendous growth rate



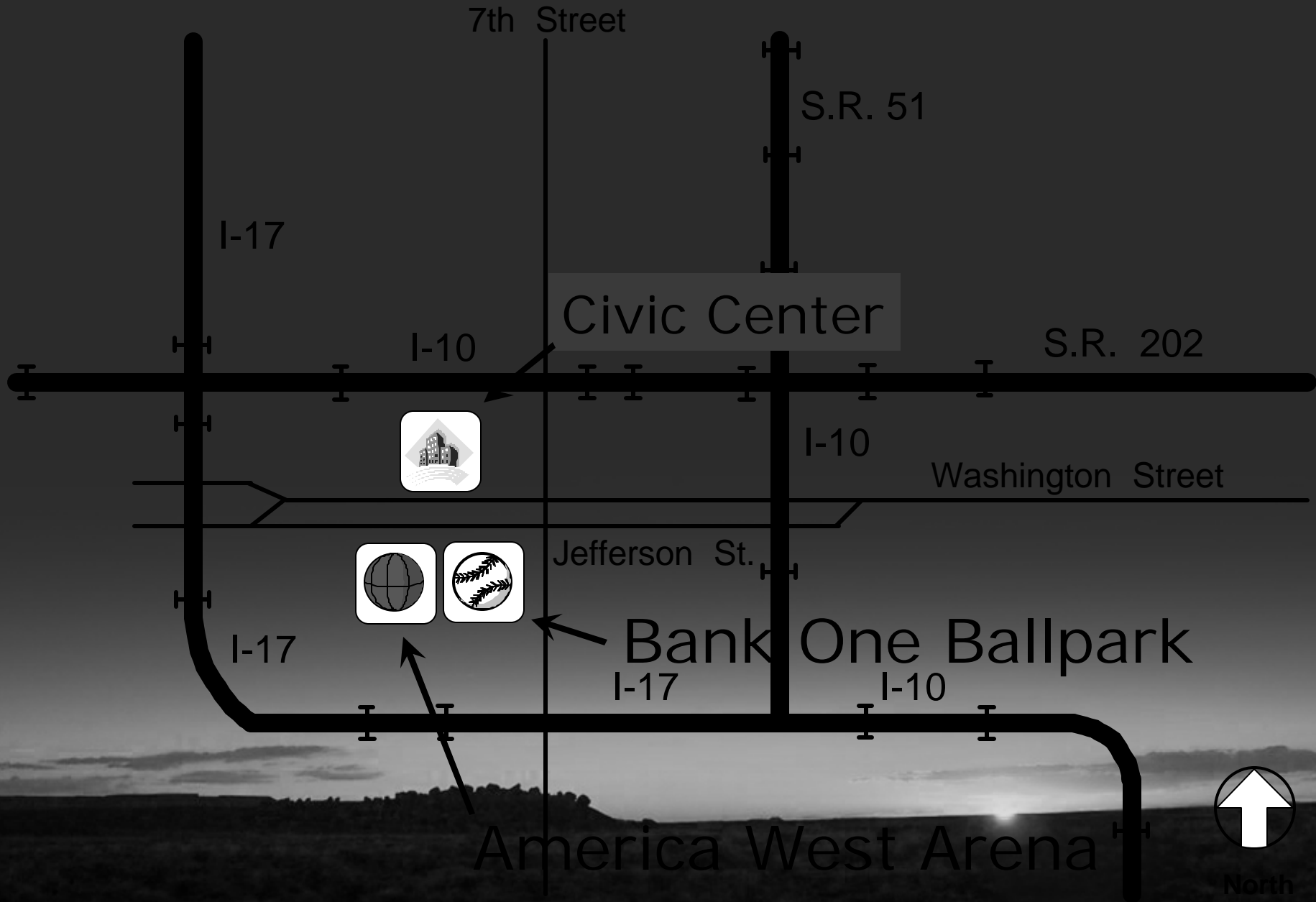
# History

- Major League announcement, 1996
- Sunburst Traffic Management Plan
- Philosophy & Operation





# Downtown Phoenix



# Why a Downtown Traffic Management System?

- Major event facilities:
  - Bank One Ballpark
  - America West Arena
  - Civic Center
- Cultural venues
- Events generate significant circulation & parking demand
- Traffic & enforcement staff will benefit from enhanced technical tools

# What are the goals of the DTMS?

- ✓ Facilitate parking and traffic by equipping police and TMC with ITS tools.
- ✓ Expand event management partnership with police, traffic and stadium/center management



# Downtown Phoenix Major Facilities



Bank One Ballpark:  
Seating Capacity 53,000



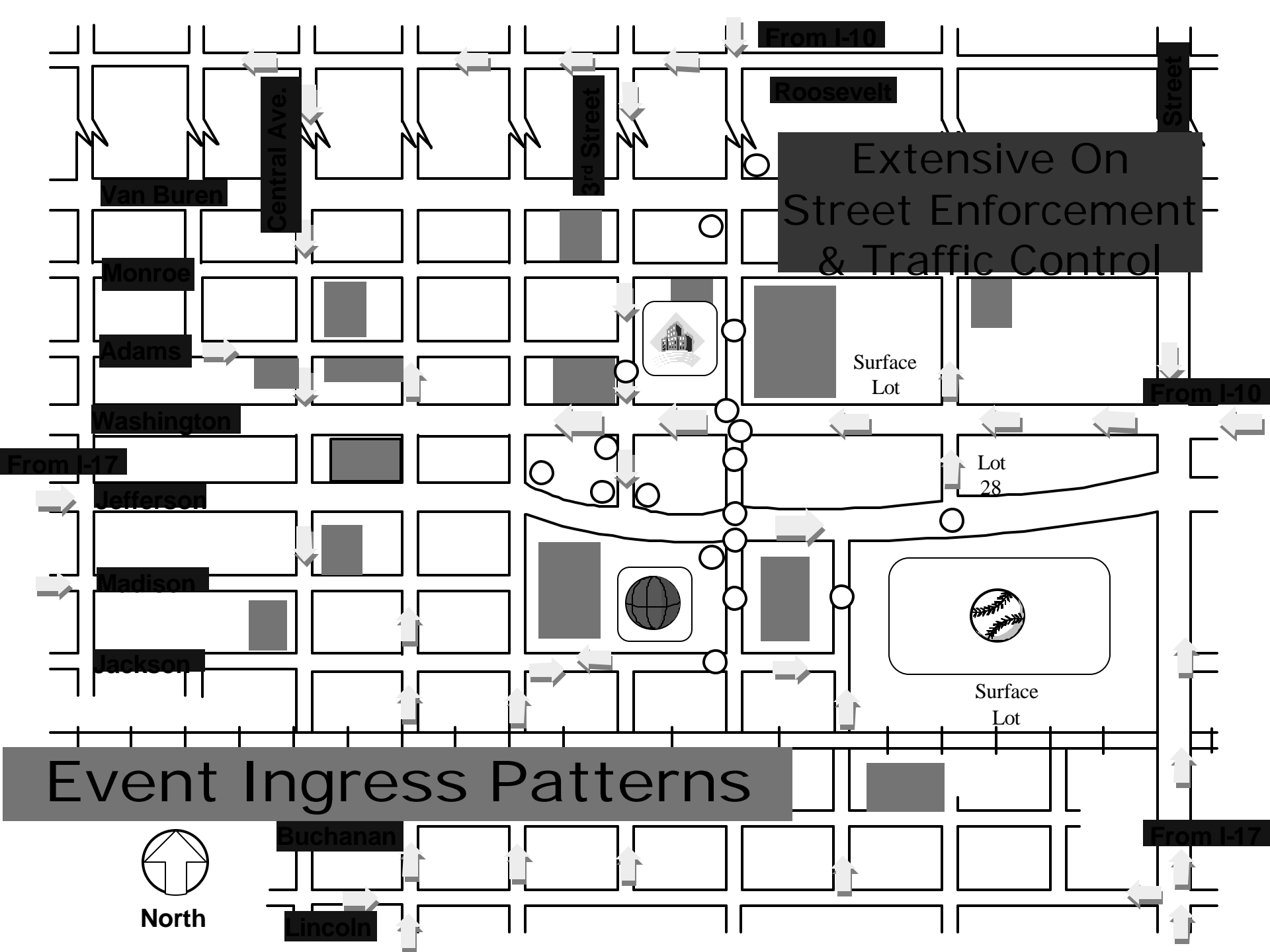
Civic Center:  
375,000 sq ft. (undergoing  
expansion to 900,000)

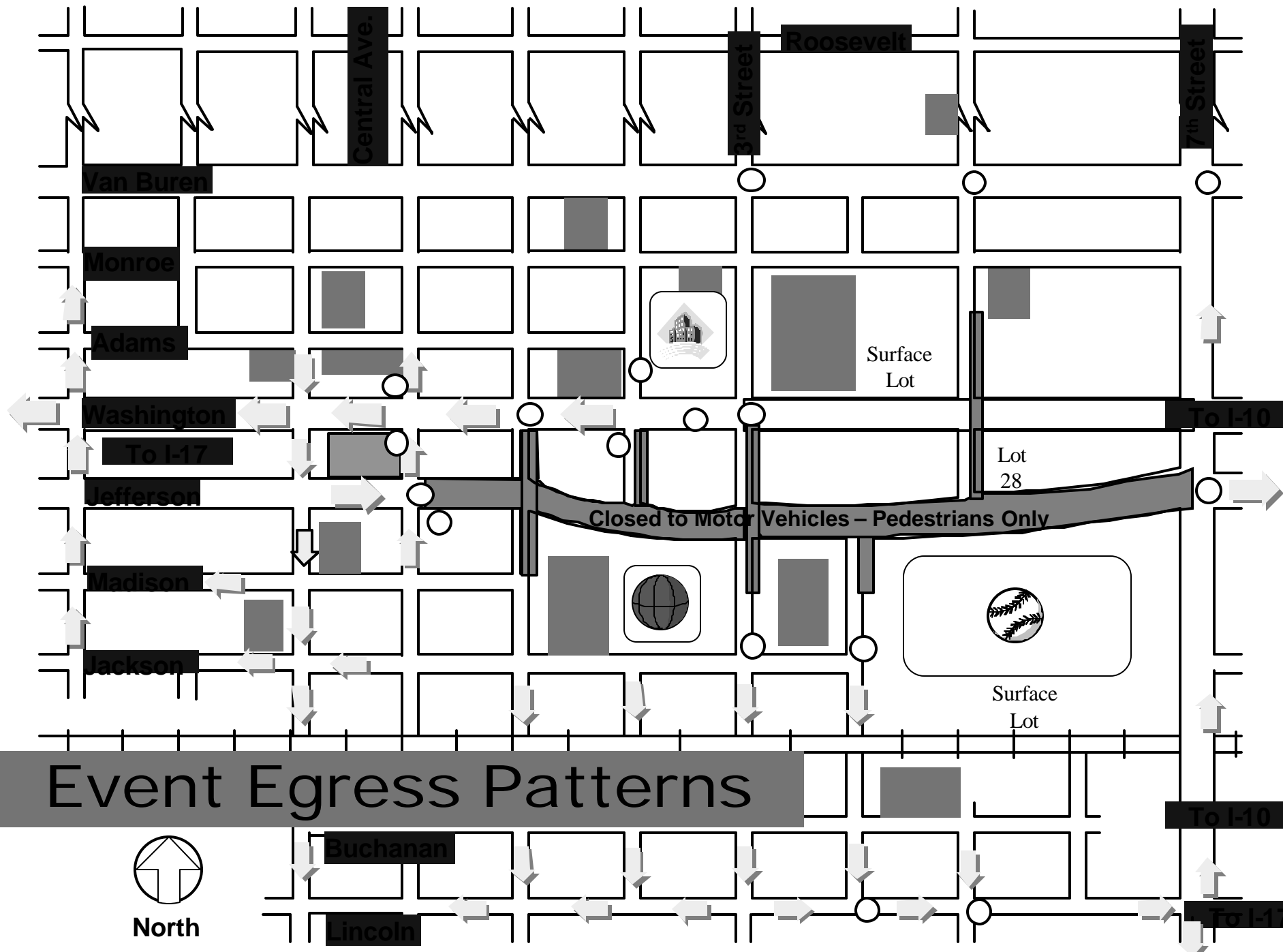
America West Arena:  
Seating Capacity 19,023

# Event Traffic Management & Enforcement Needs

- Enhance event ingress & egress
- Enhance event security
- Enhance interagency coordination







# Design & Implementation Process

- Early planning 1999 – 2000
- Design Concept Report August 2001
- Design Completed August 2001
- CM@R Revised Design Completed March 2003
- Construction & System Acceptance Complete November 2004





# What ITS Tools are elements of the DTMS?

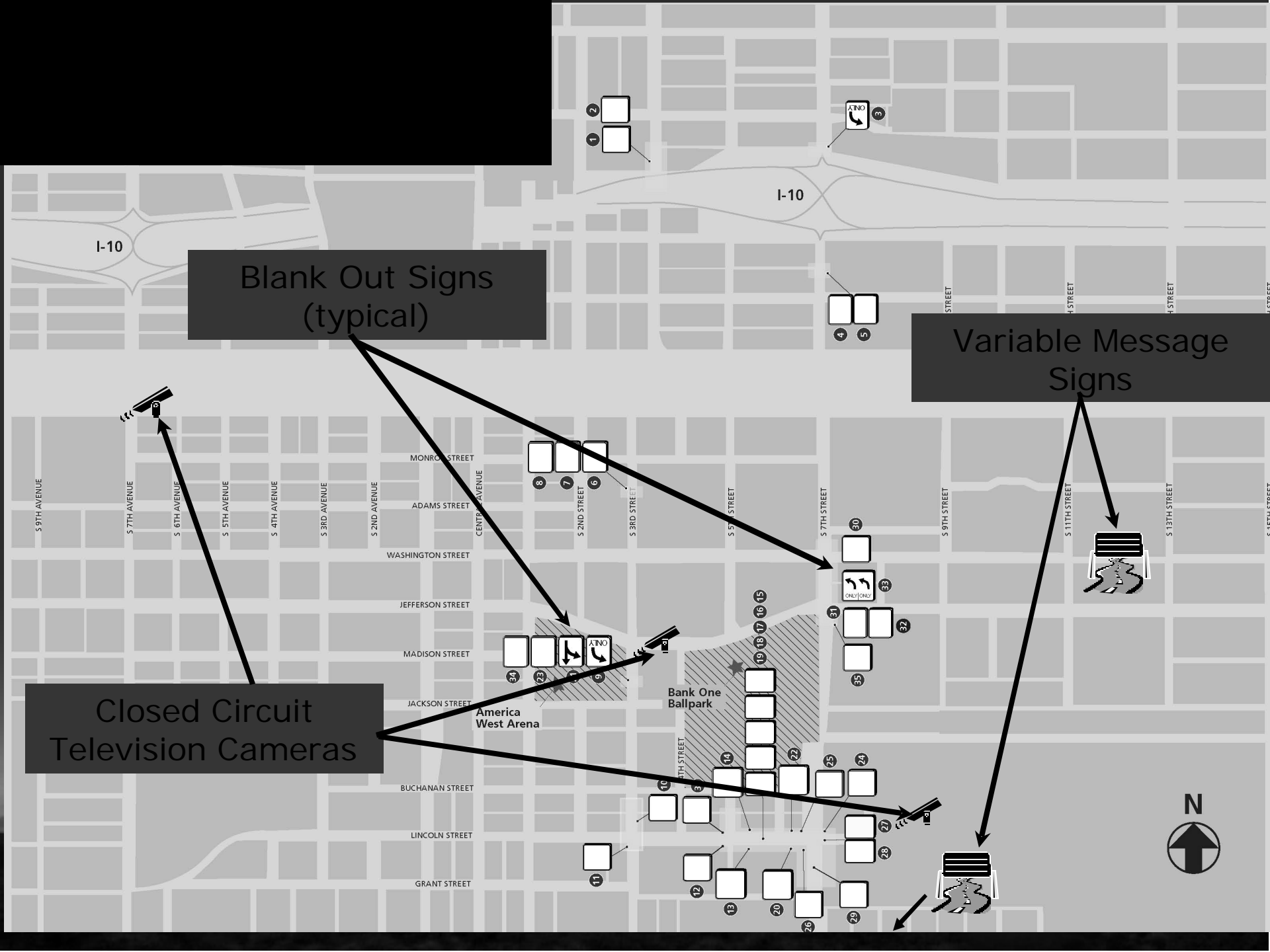
- Surveillance
  - CCTV
- Traveler Information
  - Dynamic Message Signs DMS (Arterial)
- Traffic Management
  - Blank Out Signs
  - Traffic Signals
  - Video Walls
  - Integrated Central Control Software



Blank Out Signs  
(typical)

Variable Message  
Signs

Closed Circuit  
Television Cameras



# Surveillance

## Closed Circuit Television (CCTV) System:

3 additional cameras (integration of 6 existing)

Shared control for police & traffic management staff

Linkage to freeway CCTV system



# Traveler Information

## Dynamic Message Signs (DMS):

2 arterial DMS

Shared control for  
police & traffic  
management staff

Ongoing test with  
freeway DMS  
coordination



# Traffic Management



## **Blank Out Signs:**

36 Blank Out Signs

10 Ingress & Egress 'Scenarios'

System tied to traffic signals where turn restrictions apply

# Traffic Management



**Management  
Center  
Enhancements:**

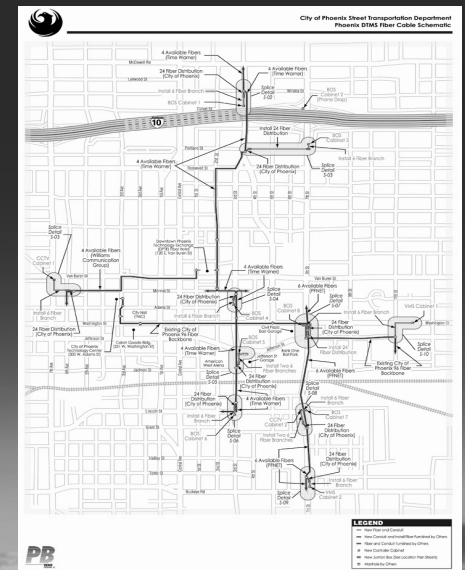
Video Walls at  
Police and Traffic  
Management  
Centers

Integrated Control  
& Monitoring  
Software (with  
remote capability)

# Communications

Integrated communications mix:

- City owned fiber optic
- City franchised private sector fiber optic
- City owned copper wire
- Leased telephone



# What's next

- Operational plan in progress
- Contract maintenance for most field devices (after warranty period)
- Adjust some scenarios & add additional signs
- Tie in to parking garage & signal systems for traffic & parking data
- Coordinate with Light Rail construction & operations
- Evaluate system once ASU Downtown campus opens





# Questions





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